32ET5A

Power Pentode

7-PIN MINIATURE TYPE

With Heater Having Controlled Warm-Up Time

GENERAL DATA

Electrical:

Heater Characteristics and Ratings *(Design-Maximum Values)*:

Current	0.100 ± 0.006		amp
Voltage (AC or DC) at heater amperes = 0.100	32		volts
Warm-up time (Average)	20		sec
Peak heater-cathode voltage:			
Heater negative with respect to cathode	200	max.	volts
Heater positive with respect to cathode	200[a]	max.	volts

Direct Interelectrode Capacitances (Approx.):[b]

Grid No.1 to plate	0.6	pf
Grid No.1 to cathode & grid No.3, grid No.2, and heater	12.0	pf
Plate to cathode & grid No.3, grid No.2, and heater	6.0	pf

Mechanical:

Operating Position	Any
Type of Cathode	Coated Unipotential
Maximum Overall Length	2-5/8"
Maximum Seated Length	2-3/8"
Length, Base Seat to Bulb Top (Excluding tip)	2" ± 3/32"
Diameter	0.650" to 0.750"
Dimensional Outline	See *General Section*
Bulb	T5-1/2
Base	Small-Button Miniature 7-Pin (JEDEC No.E7-1)
Basing Designation for BOTTOM VIEW	7CV

Pin 1 - Cathode, Grid No.3
Pin 2 - Grid No.1
Pin 3 - Heater
Pin 4 - Heater
Pin 5 - Grid No.1
Pin 6 - Grid No.2
Pin 7 - Plate

AMPLIFIER — Class A_1

Maximum Ratings, ***Design-Maximum Values:***

PLATE VOLTAGE	150	max.	volts
GRID-No.2 (SCREEN-GRID) VOLTAGE	130	max.	volts
GRID-No.2 INPUT	1.2	max.	watts
PLATE DISSIPATION	5.4	max.	watts

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Typical Operation and Characteristics:

Plate Voltage	110		volts
Grid-No.2 Voltage	110		volts
Grid-No.1 Voltage	-7.5		volts
Peak AF Grid-No.1 Voltage	7.5		volts
Zero-Signal Plate Current	30		ma
Zero-Signal Grid-No.2 Current	2.8		ma
Plate Resistance (Approx.)	21500		ohms
Transconductance	5500		μmhos
Load Resistance	2800		ohms
Total Harmonic Distortion	10		%
Max.-Signal Power Output	1.2		watts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:			
For fixed-bias operation	0.1	max.	megohm
For cathode-bias operation	0.5	max.	megohm

[a] The dc component must not exceed 100 volts.
[b] Without external shield.